

CLAIMS:

1. A radio network, having a first device (2) that has a transmitter (3), in which a second device (4) is to be protected against the electromagnetic radiation of the transmitter (3), and at least one of the devices (2, 4), and at least one of the devices (2, 4) can be changed in its location, and one of the devices (2, 4) includes a wireless interrogation system (6), which cooperates with a reflecting device (5) of the other device (4, 2), and one of the devices (2, 4), as a function of the distance from the other device detected by means of the interrogation system (6) and the reflecting device (5), can be switched over between a normal operating mode (N2, N4) and a special operating mode (S2, S4) intended for comparatively short distances,

characterized in that the operating mode (N2, S2) of the first device (2) that has the transmitter (3) is variable.

2. The radio network as recited in claim 1, characterized in that the transmitter (3) has a transmission power that is dependent on the operating mode (N2, S2).

3. The radio network as recited in one of claims 1 or 2, characterized in that the special operating mode (S2, S4) of one of the devices (2, 4) includes the outputting of a warning report.

4. The radio network as recited in claim 3, characterized in that the outputting of the warning report by

the first device (2) is provided and includes a warning against further approach to the second device (4) and/or an indication of a required greater distance from the second device (4).

5. The radio network as recited in claim 3 or 4, characterized in that the outputting of the warning report by the second device (4) is provided and includes a warning against its being threatened by the first device (2).

6. A method for operating a radio network as a function of the distance between two devices (2, 4), namely a first device (2) of the radio network, which has a transmitter (3), and a second device (4), to be protected against electromagnetic radiation of the transmitter (3), in which, controlled by a contactless proximity measuring system (5, 6), a switchover is made, as a function of the distance between the two devices (2, 4), between a normal operating mode (N2, N4) and a special operating mode (S2, S4), intended for comparatively short distances, of one of the devices (2, 4),

characterized in that in the special operating mode (S2, S4), the transmitter (3) is operated at reduced transmission power.

7. The method as recited in claim 6, characterized in that upon switchover to the special operating mode (S2, S4), the operation of the transmitter (3) is stopped.